Start by navigating to your home directory and list its contents. Then, move into a directory named "LinuxAssignment" if it exists; otherwise, create it.

* mkdir LinuxAssignment
* cd LinuxAssignment

Inside the "LinuxAssignment" directory, create a new file named "file1.txt". Display its contents.

* touch file.txt

Create a new directory named "docs" inside the "LinuxAssignment" directory

* mkdir docs

Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".

* cp file.txt /home/cdac/LinuxAssignment/docs
* mv file.txt file2.txt

Change the permissions of "file2.txt" to allow read, write, and execute permissions for the owner and only read permissions for others. Then, change the owner of "file2.txt" to the current user.\

* chmod o+x file2.txt

Finally, list the contents of the "LinuxAssignment" directory and the root directory to ensure that all operations were performed correctly.

* ls

Search for all files with the extension ".txt" in the current directory and its subdirectories. b. Display lines containing a specific word in a file (provide a file name and the specific word to search).

* find . -type f -name "\*.txt"
* grep “hi” file2.txt

Display the current system date and time.

* date

Display the IP address of the system. b. Ping a remote server to check connectivity (provide a remote server address to ping).

* hostname -I
* ping www.google.com

Compress the "docs" directory into a zip file. b. Extract the contents of the zip file into a new directory.

* sudo apt install zip
* zip -r docs.zip docs
* mkdir newDirectory
* unzip docs.zip -d newDirectory

Open the "file1.txt" file in a text editor and add some text to it. b. Replace a specific word in the "file1.txt" file with another word (provide the original word and the word to replace it with).

* nano file.txt